Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-28-60** **Date: 19-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
	Pan	564	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-28-60** **Date: 17-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-11-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-11-28-60
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	15-11-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Date: 13-12-2018

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2018

Lab ID	:	**CP-2018-11-28-60**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-2018
Sample ID No	:	2018-11-28-60 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/11/2018	27/11/2018	149.66 X 150.24 X 150.67	22485	8.147	395.7	17.6	17.6
2	Drain Concrete	M20	20/11/2018	27/11/2018	151.24 X 149.87 X 150.33	22666	8.214	394.4	17.4	
3	Drain Concrete	M20	20/11/2018	27/11/2018	151.47 X 150.47 X 150.45	22792	8.199	408.0	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-28-60** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-2018
Sample ID No	:	2018-11-28-60 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	22/11/2018	29/11/2018	151.64 X 151.54 X 149.49	22980	8.358	395.3	17.2	16.9
2	M20 Concrete	M20	22/11/2018	29/11/2018	150.14 X 149.87 X 150.66	22500	8.238	378.0	16.8	
3	M20 Concrete	M20	22/11/2018	29/11/2018	151.27 X 150.82 X 149.12	22813	8.235	378.7	16.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-28-60** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-2018
Sample ID No	:	2018-11-28-60 /03
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	22/11/2018	29/11/2018	149.66 X 150.24 X 150.67	22485	8.147	389.0	17.3	17.3
2	M20 Concrete	M20	22/11/2018	29/11/2018	151.24 X 149.87 X 150.33	22666	8.214	383.1	16.9	
3	M20 Concrete	M20	22/11/2018	29/11/2018	151.47 X 150.47 X 150.45	22792	8.199	401.1	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-28-60** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-2018
Sample ID No	:	2018-11-28-60 /05
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	22/11/2018	29/11/2018	150.31 X 150.64 X 150.77	22643	8.098	387.2	17.1	17.3
2	M20 Concrete	M20	22/11/2018	29/11/2018	150.49 X 151.68 X 150.97	22826	8.158	394.9	17.3	
3	M20 Concrete	M20	22/11/2018	29/11/2018	150.33 X 150.45 X 151.26	22617	8.174	393.5	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-28-60** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-2018
Sample ID No	:	2018-11-28-60 /07
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	22/11/2018	29/11/2018	149.65 X 151.22 X 149.78	22630	8.152	387.0	17.1	17.1
2	M20 Concrete	M20	22/11/2018	29/11/2018	151.33 X 149.80 X 151.44	22669	8.197	399.0	17.6	
3	M20 Concrete	M20	22/11/2018	29/11/2018	151.85 X 150.47 X 150.99	22849	8.161	381.6	16.7	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-11-28-60**	**Date: 19-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur	
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore	
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-11-2018	
Sample ID No	:	2018-11-28-60 /06	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	15/11/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-28-60** **Date: 27/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-2018
Sample ID No	:	2018-11-28-60 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/11/2018	27/11/2018	149.35 X 151.54 X 151.37	22632	8.195	398.3	17.6	17.2
2	Drain Concrete	M20	20/11/2018	27/11/2018	150.49 X 150.00 X 149.64	22574	8.146	388.3	17.2	
3	Drain Concrete	M20	20/11/2018	27/11/2018	151.37 X 150.55 X 151.08	22789	8.198	382.9	16.8	

Note:
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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-11-28-60** **Date: 16-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012
Date of test:	:	15-11-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Page 1/1
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-11-28-60** **Date: 17-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-11-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	141	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-11-28-60** **Date: 17-11-2018**

Sample ID No : 2018-11-28-60 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.31	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	7.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-28-60** **Date: 19-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Dhobighat at Ananthpura in ward no.03 Attur
Agency	:	Sri. Santosh.B, No.84, 8th cross, Pojamma Temple, Kogilu Village, Yelahanka, Bangalore
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/30/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-2018
Sample ID No	:	2018-11-28-60 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-11-28-60** **Date: 19-11-2018**

Sample ID No : 2018-11-28-60 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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